

A filter circuit is provided which has a filtered input and an unfiltered input. The filtered input passes through delay elements to coefficient circuitry. The unfiltered input passes to the coefficient circuitry without passing through the delay elements. In this manner, an unfiltered offset can be added to the filtered output. This filter is especially useful when the filtered value is in phase representation form; for example, when the filter value is a hue value encoded as a phase.